

## SYSTEMATIC TREATMENT

## I. KEY TO THE SUB-FAMILIES

1. Spikelets 2-flowered, falling entire at maturity, with upper floret hermaphrodite and lower male or barren or latter often reduced to lemma, frequently dorsally compressed...  
.....**PANICOIDEAE** (p 25)
1. Spikelets 1-many-flowered, breaking up at maturity above the more or less persistent glumes or if falling entire then not 2-flowered with lower floret male or barren and upper hermaphrodite, usually more or less laterally compressed or terete.....**POOIDEAE** (p 426)

## KEY TO THE TRIBES OF PANICOIDEAE

1. Spikelets unisexual, male and female spikelets in separate inflorescence or in different parts of the same inflorescence .....**MAYDEAE** (p 285)
1. Spikelets all bisexual, or with male or barren and bisexual mixed in the same inflorescence:
  2. Spikelets similar or dissimilar, often paired or in threes with one sessile and one or two pedicelled, rarely solitary but then the upper lemma awned, glumes as long as the spikelets and enclosing the florets, more or less rigid; upper lemma usually awned.....**ANDROPOGONEAE** (p 25)
  2. Spikelets similar, solitary or paired, glumes usually membranous, the lower often smaller or suppressed, lower lemma more or less similar to upper glume in texture, upper lemma usually awnless.....**PANICEAE** (p 295)

## PANICOIDEAE - ANDROPOGONEAE

## Key to the genera

1. Spikelets solitary:
  2. Rhachis of the racemes tough, flat or filiform, not jointed, glumes keeled, upper glume without tuft of hairs above the middle on the back.....**Dimeria**
  2. Rhachis of the racemes fragile and jointed, glumes not keeled rounded on the back, upper glume with a tuft of hairs above the middle on the back.....**Pogonachne** (p.p.)
1. Spikelets paired, rarely in threes:
  3. Spikelets of each pair similar, both sessile & pedicelled hermaphrodite, rarely sessile spikelet male and pedicelled spikelet hermaphrodite (*Lophopogon*, *Pogonatherum*):
    4. Inflorescence a panicle, with elongated central axis:
      5. Panicles narrow, contracted; rhachis tough or tardily breaking up; spikelets deciduous from their pedicels.....**Imperata**
      5. Panicles effuse; rhachis breaking up:
        6. Spikelets with awn.....**Spodiopogon**
        6. Spikelets without awn.....**Saccharum**
    4. Inflorescence of single or subdigitate racemes:
      7. Lower glume broadly truncate; pedicelled spikelet much reduced, stamens two.....**Apocypis**



7. Lower glume not markedly truncate, pedicelled spikelet developed; stamens usually three, rarely one (*Pogonatherum*) or two:
  8. Upper lemma two-toothed, awned.....*Eulaliopsis*
  8. Upper lemma deeply cleft, awned in the cleft:
    9. Lower glume 2-keeled, depressed between the keels.....*Eulalia*
    9. Lower glume convex on the back, at least at maturity:
      10. Racemes solitary.....*Pogonatherum*
      10. Racemes two or more:
        11. Upper glume with a very short awn; lower glume of sessile spikelet with tufts of hairs.....*Lophopogon*
        11. Upper glume with a long slender awn; lower glume of sessile spikelet without tuft of hairs.....*Pseudopogonatherum*
3. Spikelets in each pair dissimilar, sessile hermaphrodite, pedicelled male or sterile:
  12. Joints of rhachis and pedicel of pedicelled spikelet swollen, 3-angled, rounded or flattened:
    13. Sessile spikelet with a male and a hermaphrodite floret; upper lemma awned:
      14. Racemes many noded, not enclosed in spathe-like sheath:
        15. Raceme solitary, terminal; lower glume of sessile spikelet not transversely grooved:
          16. Spikelets in pairs, forming a false raceme, keel of upper glume with or without a tuft of hairs:
            17. Ligule membranous; lower glume of sessile spikelet with two tufts of hairs, upper with one tuft.....*Triplopogon* (p.p)
            17. Ligule a row of hairs; lower and upper glumes without tufts of hair.....*Sehima*(p.p)
          16. Spikelets solitary, pedicelled forming a true raceme; the upper glume with a thick tuft of hairs in the middle.....*Pogonachne*
        15. Racemes two to many; lower glume of sessile spikelet often with nodules on the margins or transversely furrowed:
          18. Pedicelled spikelet well developed; lower glume often transversely wrinkled, furrowed or with nodules on margins.....*Ischaemum*
          18. Pedicelled spikelet reduced to a linear curved pedicel, lower glume covered all over with transverse ridges, broken up into warts or teeth.....*Thelepogon*
      14. Racemes 1-noded, enclosed in a boat-shaped sheath.....*Apluda*
    13. Sessile spikelet with a hermaphrodite floret only or occasionally with a male floret below; upper lemma unawned:
      19. Spikelets similar; rhachis very tough; joints and pedicel fused.....*Hemarthria*
      19. Spikelets more or less dissimilar; rhachis usually breaking up; joints and pedicels fused or free:
        20. Racemes covered with shaggy hairs.....*Elionurus*



20. Racemes mostly glabrous, not conspicuously hairy:
21. Axis of the spikes tough, not breaking up,  
spikelets paired.....**Hemarthria (p.p)**
21. Axis of the spikes fragile:
22. Spikelets solitary, sessile, the pedicelled suppressed  
or rudimentary.....**Ophiuros**
22. Spikelets paired, one sessile, other pedicelled:
23. Sessile spikelet broadly winged on keels  
of lower glume.....**Glyphochloa**
23. Sessile spikelets not winged on the keels  
of the lower glume; if winged then  
narrowly only at the apex:
24. Joints and pedicels fused.....**Rottboellia**
24. Joints and pedicels not fused.....**Mnesithea**
12. Joints of rhachis and pedicel narrow, seldom thickened upwards, occasionally with  
a translucent longitudinal groove; sessile spikelet usually awned:
25. Inflorescence a terminal raceme:
26. Ligule membranous; lower glume of sessile spikelet  
with two tufts of hair, upper glume with one tuft.....**Triplopogon**
26. Ligule a row of hairs; lower glume of sessile spikelet  
without tufts of hair.....**Sehima**
25. Inflorescence a panicle:
27. Spikelets in racemes not interrupted by spathes or solitary  
at the end of the branches; the racemes collected into  
whorled panicles; joints and pedicels not furrowed:
28. Spikelets solitary.....**Cleistachne**
28. Spikelets in pairs or threes, pedicelled spikelets  
often more or less reduced:
29. Spikelets dorsally compressed.....**Sorghum**
29. Spikelets laterally compressed:
30. Racemes composed of several to many  
spikelet pairs; lower glume tuberculate.....**Vetiveria**
30. Racemes reduced to triads, lower glume  
smooth not tuberculate.....**Chrysopogon**
27. Panicles of racemes interrupted by spathes or espatheate racemes digitate or  
in pairs or solitary and terminal, sometimes the joints and pedicels with a  
translucent median furrow:
31. Upper lemma of sessile spikelet awned from low down on  
back.....**Arthraxon**
31. Upper lemma of sessile spikelet awned from tip,  
or sinus of bilobed tip, rarely awnless:



32. Margins of lower glume intumed and rounded at sides,  
at most keeled upwards, callus mostly sharp and long:
33. Upper lemma 2-lobed or 2-cleft and  
awned from sinus.....**Bhidea**
33. Upper lemma not 2-lobed or 2-cleft,  
stipitate and passing into awn:
34. Racemes surrounded at base by an  
involucre of homogamous spikelets:
35. Involucral spikelets pedicellate, deciduous;  
callus of fertile spikelets short, truncate or  
otuse.....**Iseilema**
35. Involucral spikelets sessile, not deciduous;  
callus of fertile spikelet pointed.....**Themeda**
34. Racemes without an involucre:
36. Lower glume of sessile spikelet  
2-toothed at apex.....**Pseudodichanthium**
36. Lower glume of sessile spikelet  
truncate at apex.....**Heteropogon**
32. Margins of lower glume of sessile spikelets  
sharply infolded, 2-keeled; callus obtuse:
37. Inflorescence not spathaceous:
38. Pedicelled spikelet usually reduced,  
often to a pedicel.....**Pseudosorghum**
38. Pedicelled spikelet well developed:
39. Inflorescence a solitary raceme.....**Euclasta**
39. Inflorescence of digitate, fascicled  
racemes or panicles.....**Dichanthium (p.p.)**
37. Inflorescence spathaceous:
40. Basal sheaths white or cream-tomentose;  
raceme solitary.....**Dichanthium**
40. Inflorescence usually a panicle, rarely solitary, corymbose  
or digitate racemes:
41. Joints thickened upwards, toothed at apex:
42. Racemes solitary at ends of culms and their  
branches; joints and pedicels often somewhat stout;  
pedicelled spikelet male, neuter or suppressed:
43. Pedicelled spikelet very much longer than  
sessile; upper glume awned; joints and pedicels  
bucciniform.....**Diectomis**
43. Pedicelled spikelet not conspicuously larger,  
often small to very small; upper glume awnless;  
joints and pedicels clavate,



GRASSES OF MAHARASHTRA

2-toothed.....**Schizachyrium**

42. Racemes 2-nate or more rarely digitate, usually all pairs of spikelets heterogamous and all sessile spikelets hermaphrodite and alike or lowest more or less reduced and barren, but still resembling the upper fertile spikelets.....**Andropogon**

41. Joints not toothed at apex:

44. Aromatic grasses; racemes in pairs supported by spathes, often collected into huge panicles; one pair of spikelets in each raceme homogamous, male or neuter, all other pairs heterogamous....**Cymbopogon**

44. Non aromatic grasses, inflorescence of subumbellate fascicles of racemes, 2-jointed, basal with one sessile and one pedicelled spikelet, upper with one sessile and 2-pedicelled spikelets.....**Pseudanthistiria**

**PANICOIDEAE - MAYDEAE**

**Key to the genera**

- 1. Male and female spikelets in different parts of the same inflorescence:
  - 2. Fruit case close, formed by leaf-sheath.....**Coix**
  - 2. Fruit case longitudinally open, not formed by leaf sheath:
    - 3. Lower glume of female spikelet 3-lobed, /  
central lobe larger than others.....**Trilobachne**
    - 3. Lower glume of the female spikelet not 3-lobed,  
2 or 3 toothed.....**Chionachne**
- 1. Male and female spikelets in separate inflorescence.....**Zea**



## PANICOIDEAE - PANICEAE

### Key to the genera

- 1. Spikelets mostly unisexual.....**Spinifex**
- 1. Spikelets all similar in shape and sex:
  - 2. Spikelets finely awned or mucronate from notched tips of upper glume and lower lemma:
    - 3. Upper glume gibbous, 2-lobed, aristate from sinus, 5-nerved; awned.....**Rhynchelytrum**
    - 3. Upper glume not gibbous, 5-7-nerved; spikelets unawned.....**Tricholaena**
- 2. Spikelets not awned or if awned then subsessile in false second variously arranged spikes and with awns from entire tips of upper glumes and lower lemmas or from tips of both glumes:



4. Spikelets falling singly, not subtended by bristles, or if so,  
then the bristles persisting after spikelets have fallen:

5. Spikelets arranged in more or less open panicles, or with  
the panicles contracted and spike-like:

6. Spikelets not subtended by bristle-like branches:

7. Spikelets arranged in open or contracted panicles:

8. Spikelets not or only slightly gibbous.....*Panicum*

8. Spikelets distinctly gibbous and laterally much  
compressed.....*Cyrtococcum*

7. Spikelets usually arranged in cylindrical spike-like panicles:

9. Upper lemma and palea indurated closed at apex;

spikelets more or less gibbous.....*Sacciolepis*

9. Upper lemma and palea membranous, gaping at apex,

spikelets lanceolate.....*Hymenachne*

6. Spikelets subtended or replaced by one to many bristle

like branchlets remaining after spikelets fallen.....*Setaria* (p.p)

5. Spikelets arranged in one-sided spikes or spike-like racemes;  
spikes or racemes digitate or scattered, rarely solitary:

10. Lemma of upper floret more or less crustaceous or coriaceous,  
usually with narrow inrolled margins:

11. Lower glume and lowest internode of rhachilla not forming  
a swollen callus at base of spikelet:

12. Glumes and lemmas with laterally compressed

and thickened apices.....*Acroceras*

12. Glumes and lemmas not as above:

13. Lower glume (when present) turned away from rhachis  
of racemes or spike, back of upper lemma facing it:

14. Lower glume developed:

15. Glumes acuminate or awned, rarely only acute;  
upper lemma not mucronate:

16. Leaf-blades linear; racemes dense;

culms erect.....*Echinochloa*

16. Leaf-blades lanceolate to ovate; racemes

loose to moderately dense; culms creeping

and ascending.....*Oplismenus*

15. Glumes awnless, if acuminate, then with  
upper lemma mucronate:

17. Upper lemma acute, not mucronate.....*Paspalidium*

17. Upper lemma obtuse, mucronate or

very short awned.....*Urochloa*

14. Lower glume usually absent.....*Paspalum*



## GRASSES OF MAHARASHTRA

13. Lower glume turned towards rhachis, back of upper lemma turned away from it:

18. Lower glume present:

19. Spikelets disarticulating above the glumes, upper lemma chartaceous to cartilaginous, shiny, smooth, muticous.....**Moorochloa**

19. Spikelets disarticulating below the glumes, upper lemma indurated, dull, coarsely to finely transversely rugose, apiculate to mucronate.....**Urochloa (p.p.)**

18. Lower glume absent.....**Axonopus**

11. Lower glume and lowest internode of rhachilla forming annular callus at base of spikelet.....**Eriochloa**

10. Lemma of the upper floret thinly cartilaginous, usually with flat hyaline margins:

20. Spikelets awned.....**Alloteropsis**

20. Spikelets awnless.....**Digitaria**

4. Spikelets with an involucre of bristles or subtended by a solitary bristle and falling with or without bristles at maturity, solitary or in clusters:

21. Upper lemma smooth; bristles caducous:

22. Bristles numerous, formed of highly modified bristle or spine like branchlets:

23. Involucre of free, naked or plumose bristles.....**Pennisetum**

23. Involucre of spines or rigid bristles united at base into a hard cup.....**Cenchrus**

22. Bristles solitary, formed by prolongation of branch beyond terminal spikelet.....**Pseudoraphis**

21. Upper lemma transversely rugose, bristles persistent.....**Setaria**

### 45. ACROCERAS Stapf

Fl. Trop. Afr. 9: 621. 1920. ca. 15 species; ca. 3 in India and 1 in Maharashtra.

*Acroceras munroanum*  
Ceylon



## KEY TO THE TRIBES OF POOIDEAE

1. Arborescent grasses.....**Bambuseae** (p 468)
1. Tall or moderate sized annuals or perennials:
  2. Spikelets in open or contracted or spike-like panicles in racemes or spikes:
    3. Spikelets usually with two or more fertile florets, or if with one fertile floret then with sterile reduced florets above it:
      4. Lemma and rhachilla glabrous or hairy, low or moderately tall grasses:
        5. Glumes usually shorter than lowest floret with upper floret distinctly exerted:
          6. Lemmas usually 5-many nerved:
            7. Lemmas 1-awned or if awnless lemmas 5-7-nerved:
              8. Leaves usually broad, always with numerous cross nerves.....**Centotheceae** (p 475)
              8. Leaves narrow, not tessellately nerved.....**Festuceae** (p 567)
            7. Lemmas awnless, 7-9-nerved:
              9. Inflorescence globular head of spikelets, ligule a rim of hairs.....**Aeluropodeae** (p 427)
              9. Inflorescence axillary panicle, ligule absent.....**Hubbardieae** (p 573)
        6. Lemmas 1-3-nerved:
          10. Inflorescence of panicle, if racemes or spikes, spikelets not secund.....**Eragrostae** (p 506)
          10. Inflorescence of racemes or panicles of racemes, spikelets secund.....**Chlorideae** (p 477)
      5. Glumes usually as long as or longer than lowest floret enclosing florets:
        11. Lemmas awnless or awned from back, ligule membranous.....**Aveneae** (p 465)
        11. Lemmas awned from sinus between the two terminal lobes, ligule a hairy rim.....**Danthonieae** (p 504)
    4. Lemmas and rhachilla joints long silky; hairs enveloping lemma, tall grasses.....**Arundineae** (p 443)
  3. Spikelets with one fertile floret with or without one or two male or barren florets below it, the latter often much reduced:
    12. Glumes minute or suppressed, Stamens 6.....**Oryzeae** (p 597)
    12. Glumes well developed, Stamens 1-3:
      13. Spikelets with 3 florets.....**Phalarideae** (p 605)
      13. Spikelets with 1-2 florets:
        14. Spikelets with 2 florets:
          15. Lower floret empty without a palea, spikelets falling with part of pedicel attached.....**Thysanolaeneae** (p 625)
          15. Lower floret male or barren, usually with a palea, rhachilla disarticulating below upper floret,



GRASSES OF MAHARASHTRA

glumes more or less persistent:

16. Glumes equal, upper lemma unawned.....Isachneae (p 575)

16. Glumes unequal, upper lemma with an awn or at least a bristle.....Arundinelleae (p 446)

14. Spikelets with 1 fertile floret:

17. Spikelets cylindrical, base of glumes bearded.....Garnotieae (p 567)

17. Spikelets cylindrical, ellipsoid-acute or laterally compressed, base of glume not bearded:

18. Spikelets very rarely falling entire, awned or 5-nerved lemmas:

19. Lemmas hyaline or membranous at maturity, rarely indurated and then laterally compressed, awnless or awned from low down on back:

20. Lemmas usually 3-5-nerved, frequently awned, grains usually with an adhering pericarp.....Agrostideae (p 429)

20. Lemmas 1-3-nerved, awnless; grains usually with a free pericarp.....Sporoboleae (p 607)

19. Lemmas indurated or rigid at maturity, terete or dorsally compressed, awns trifid.....Aristideae (p 431)

18. Spikelets falling entire at maturity, 1-3-nerved lemmas:

21. Spikelets fascicled or solitary, glumes not awned.....Zoysieae (p 627)

21. Spikelets solitary; glumes awned.....Perotideae (p 603)

2. Spikelets on opposite sides of the rhachis of solitary spikes or spike like racemes:

22. Ovary hairy, especially at the apex, grain often longitudinally grooved, lodicules hairy, lemmas 3-5-nerved.....Triticeae (p 625)

22. Ovary glabrous, grain not grooved, lodicules glabrous, lemmas 1-3-nerved.....Leptureae (p 595)



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<i>tridentatus</i> Roxb.	215	<i>echinatus</i> (Nees) Hochst.	36
<i>trispicatus</i> Schult.	139	<i>hookeri</i> (Hack.) Henrard	36
<i>triticeus</i> R.Br.	168	<i>inermis</i> Hook. f.	36
<i>tuberculatus</i> Hack.	112	<i>inermis</i> var. <i>tzvelevii</i> S. K. Jain	36
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<i>velutinus</i> Hook. f.	72	var. <i>hispidus</i>	12, 36, 37, 41
<i>venustus</i> Thwaites	632	var. <i>junnarensis</i> (S. K. Jain & Hemadri) Welzen	22, 23, 36, 38, 39
<i>wightianus</i> Nees ex Steud.	69	var. <i>santapau</i> (Bor) Welzen	38, 40
<i>woodrowii</i> Hook. f.	112	<i>jubatus</i> Hack.	11, 19, 22, 35, 41, 42
<b>ANDROPOGONEAE</b>	20, 25	<i>junnarensis</i> S. K. Jain & Hemadri	40
<i>Anthistiria ciliata</i> L. f.	273	<i>lanceolatus</i> (Roxb.) Hochst.	14, 22, 35, 41
<i>cymbaria</i> Roxb.	269	var. <i>echinatus</i> (Nees) Hack.	45, 46
<i>heteroclita</i> Roxb.	232	var. <i>lanceolatus</i>	43, 43, 44
<i>imberbis</i> Retz.	278	var. <i>meeboldii</i> (Stapf) Welzen	45, 47
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<i>strigosa</i> Buch.-Ham. ex Hook. f.	273	var. <i>villosus</i> (C. E. C. Fisch.) Welzen	50, 51
<i>tremula</i> Nees ex Steud.	275	<i>lancifolius</i> (Trin.) Hochst	12, 14, 18, 36, 52, 53
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<b>APLUDA</b> L.	26, 31	<i>meeboldii</i> Stapf	45
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<i>prieuri</i> Kunth	492	<i>nardus</i> (L.) Rendle	74
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<i>asper</i> (B. Heyne ex Hook. f.)	22, 57, 58	Pers.	13, 14, 15, 18, 19, 23, 24, 487, 489, 490
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